

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT



Complete Known

Application Number	09/864,873
Filing Date	25 May 2001
First Named Inventor	John J. ROSSI
Group Art Unit	1645-1635
Examiner Name	Not Yet Assigned

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ⁶
KAL	✓	Browning et al., "Potent Inhibition of Human Immunodeficiency Virus Type 1 (HIV-1) Gene Expression and Virus Production by an HIV-2 Tat Activation-Response RNA Decoy," J. Virol 73(6):5191-5195, 1999.	
	✓	Buonomo et al., "The Rev protein is able to transport to the cytoplasm small nucleolar RNAs containing a Rev binding element," RNA 5:993-1002, 1999.	
	✓	Caffarelli et al., "In Vivo Identification of Nuclear Factors Interacting with the Conserved Elements of Box C/D Small Nucleolar RNAs," Mol. Cell Biol. 18(2):1023-1028, 1998.	
	✓	Cagnon et al., "Protection of a T-Cell Line from Human Immunodeficiency Virus Replication by the Stable Expression of a Short Antisense RNA Sequence Carried by a Shuttle RNA Molecule," J. Acquir. Immune Defic. Syndr. Hum. Retrovirol. 9:349-358, 1995.	
	✓	Cagnon et al., "Retroviral Delivery and Anti-HIV Testing of Hammerhead Ribozymes," Methods in Molecular Biology 74:451-457, 1997, Ribozyme Protocols, P.C. Turner (ed.), Humana Press, Inc., Totowa, NJ.	
	✓	Churcher et al., "The RNA element encoded by the trans-activation-responsive region of human immunodeficiency virus type 1 is functional when displaced downstream of the start of transcription," Proc. Natl. Acad. Sci. USA 92:2408-2412, March 1995.	
	✓	Cullen et al., "Subcellular Localization of the Human Immunodeficiency Virus <i>trans</i> -Acting <i>tar</i> Gene Product," J. Virol. 62:2498-2501, July 1988.	
	✓	Dayton et al., "The Trans-Activator Gene of the Human T Cell Lymphotropic Virus Type III Is Required for Replication," Cell 44:941-947, March 28, 1986.	
	✓	Dingwall et al., "Human immunodeficiency virus 1 tat protein binds trans-activation-responsive region (TAR) RNA <i>in vitro</i> ," Proc. Natl. Acad. Sci. USA 86:6925-6929, September 1989.	
	✓	Feng et al., "HIV-1 <i>tar</i> trans-activation requires the loop sequence within <i>tar</i> ," Nature (London) 334:165-167, 14 July 1988.	
	✓	Fisher et al., "The <i>trans</i> -activator gene of HTLV-III is essential for virus replication," Nature 320:367-371, 27 March 1986.	

Examiner Signature

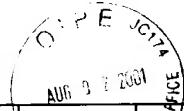
Karen Abacourian

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <div style="text-align: right; margin-top: -20px;">  AUG 3 2001 </div>			Completely Known	
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Sheet 3 of 4	Attorney Docket Number 1954-330			

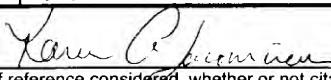
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PL	✓	Fragapane et al., "A novel small nucleolar RNA (U16) is encoded inside a ribosomal protein intron and originates by processing of the pre-mRNA," EMBO J. 12(7):2921-2928, 1993.	
	✓	Gait et al., "RNA recognition by the human immuno-deficiency virus Tat and Rev proteins," Trends in Biochem. Sci. 18:255-259, 1993.	
	✓	Good et al., "Expression of small, therapeutic RNAs in human cell nuclei," Gene Ther. 4:45-54, 1997.	
	✓	Gorse et al., "Antibody to Native Human Immunodeficiency Virus Type 1 Envelope Glycoproteins Induced by HIB and MN Recombinant gp120 Vaccines," Clinical and Diagnostic Laboratory Immunology 3(4):378-386, July 1996.	
	✓	Haseloff et al., "Simple RNA enzymes with new and highly specific endoribonuclease activities," Nature 334:585-591, 18 August 1988.	
	✓	Hertel et al., "Numbering system for the hammerhead," Nucleic Acids Res. 20(12):3252, 1992.	
	✓	Kalland et al., "Rex-Dependent Nucleolar Accumulation of HTLV-1 mRNAs," The New Biologist 3(4):389-397, 1991.	
	✓	Konopka et al., "Receptor Ligand-Facilitated Cationic Liposome Delivery of Anti-HIV-1 Rev-Binding Aptamer and Ribozyme DNAs," J. Drug Targeting 5(4):247-259, 1998.	
	✓	Lafontaine et al., "Birth of the snoRNPs: the evolution of the modification-guide snoRNAs," Trends in Biochem. Sci. 23:383-388, October 1998.	
	✓	Lange et al., "Conserved Boxes C and D are essential nucleolar localization elements of U14 and U8 snoRNAs," EMBO J. 17(11):3176-3187, 1998.	
	✓	Lee et al., "mRNA localization signals can enhance the intracellular effectiveness of hammerhead ribozymes," RNA 5:1200-1209, 1999.	
	✓	Michienzi et al., "Ribozyme-mediated inhibition of HIV 1 suggests nucleolar trafficking of HIV-1 RNA," PNAS 97(16):8955-8960, August 1, 2000.	
	✓	Michienzi et al., "A chimeric nucleolar Rev decoy inhibits the HIV replication," Nucleic Acids Symposium Series No. 41:211-214, 1999.	

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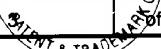
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KAL	✓	Michienzi et al., "Inhibition of Human Immunodeficiency Virus Type 1 Replication by Nuclear Chimeric Anti-HIV Ribozymes in a Human T Lymphoblastoid Cell Line," <i>Hum. Gene Ther.</i> 9:621-628, March 20, 1998.	
	✓	Muesing et al., "Regulation of mRNA Accumulation by a Human Immunodeficiency Virus Trans-Activator Protein," <i>Cell</i> 48:691-701, February 27, 1987.	
	✓	Müller et al., "Stimulation of HIV-1 neutralizing antibodies in simian HIV-IIIB-infected macaques," <i>Proc. Natl. Acad. Sci. USA</i> 9:276-281, January 1998.	
	✓	Ojwang et al., "Inhibition of human immunodeficiency virus type 1 expression by a hairpin ribozyme," <i>Proc. Natl. Acad. Sci. USA</i> 89:10802-10806, November 1992.	
	✓	Pederson, "SURVEY AND SUMMARY, The plurifunctional nucleolus," <i>Nucleic Acids Res.</i> 26(17):3871-3876, 1998	
	✓	Prislei et al., "Use of adenoviral VAI small RNA as a carrier for cytoplasmic delivery of ribozymes," <i>RNA</i> 3:677-687, 1997.	
	✓	Prislei et al., "Two different snoRNAs are encoded in introns of amphibian and human L1 ribosomal protein genes," <i>Nucleic Acids Res.</i> 21(25):5824-5830, 1993.	
	✓	Ratner et al., "Complete nucleotide sequence of the AIDS virus, HTLV-III," <i>Nature</i> 313:277-284, 24 January 1985.	
	✓	Rosen et al., "The Location of C/s-Acting Regulatory Sequences in the Human T Cell Lymphotropic Virus Type III (HTLV-III/LAV) Long Terminal Repeat," <i>Cell</i> 41:813-823, July 1985.	
	✓	Rossi, "Ribozymes in the Nucleolus," <i>Science</i> 285:1685, 10 September 1999.	
	✓	Rossi, "Ribozymes, genomics and therapeutics," <i>Chemistry & Biology</i> 6:R33-37, 1999.	
	✓	Ruffner et al., "Sequence Requirements of the Hammerhead RNA Self-Cleavage Reaction," <i>Biochemistry</i> 29:10695-10702, 1990.	
✓	✓	Samarsky et al., "The snoRNA box D/D motif directs nucleolar targeting and also couples snoRNA synthesis and localization," <i>EMBO J.</i> 17(13):3747-3757, 1998.	

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Group Art Unit 1645 1635

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KAL	✓	Samarsky et al., "A small nucleolar RNA:ribozyme hybrid cleaves a nucleolar RNA target <i>in vivo</i> with near-perfect efficiency," Proc. Natl. Acad. Sci. USA 96:6609-6614, June 1999.	
	✓	Sheline et al., "Two distinct nuclear transcription factors recognize loop and bulge residues of the HIV-1 TAR RNA hairpin," Genes & Development 5:2508-2520, 1991.	
	✓	Siomi et al., "Sequence Requirements for Nucleolar Localization of Human T Cell Leukemia Virus Type I pX protein, Which Regulates Viral RNA Processing," Cell 55:197-209, October 21, 1988.	
	✓	Stauber et al., "Intracellular Trafficking and Interactions of the HIV-1 Tat Protein," Virology 252:126-136, 1998.	
	✓	Sullenger et al., "Analysis of <i>trans</i> -Acting Response Decoy RNA-Mediated Inhibition of Human Immunodeficiency Virus Type 1 Transactivation," J. Virol. 65(12):6811-6816, December 1991.	
	✓	Sullenger et al., "Tethering Ribozymes to a Retroviral Packaging Signal for Destruction of Viral RNA," Science 262:1566-1569, 3 December 1993.	
	✓	Uhlenbeck, "A small catalytic oligoribonucleotide," Nature 328:596-600, 13 August 1987.	
	✓	Weinstein et al., "Guided tours: from precursor snoRNA to functional snoRNP," Curr. Opin. Cell Biol. 11:378-384, 1999.	
	✓	Wu et al., "tat regulates binding of the of the human immunodeficiency virus <i>trans</i> -activating region RNA loop-binding protein TRP-185," Genes & Development 5:2128-2140, 1991.	
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